

## Product Director Respiratory Protection

### M40 AND M42 PROTECTIVE MASK:

The M40 series Protective Mask provides respiratory, eye, and face protection for individual warfighters with improved comfort, fit, and protection. The M40/42 improves the face seal, vision and comfort. The M40/42 remains flexible at temperature extremes and is weather and ozone resistant. The M40/42 is fielded to active, reserve, and National Guard forces.

### M45 AIRCREW MASK:

The M45 Aircrew Mask provides aircrew respiratory, eye, and face protection for the Army Aviator, Land Warrior, and Joint Special Operating Forces. The M45 reduces weight and logistics plus improves vision over the current systems.

### JOINT SERVICE GENERAL PURPOSE MASK (JSGPM):

The Joint Service General Purpose Mask replaces the five ground warfighter masks now in use. It will improve vision and reduce physiological burdens such as breathing resistance, size, and weight. It will provide protection against CB agents, toxins, toxic industrial materials, and radiological particulates.

## Product Manager NBC Reconnaissance Systems

### FOX-NBC RECON SYSTEMS:

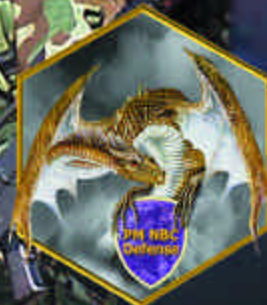
The Fox Team manages the current and future NBC Reconnaissance Platforms, including the M93, M93A1, and Fox Block II programs. The M93A1 version adds standoff detection capabilities, on-board navigation and meteorological systems, reduces crew size from 4 to 3 operators, and automatically integrates sensor information for rapid digital transmission to command and control systems. The Block II program integrates biological and improved standoff detection capabilities in a common technical architecture.

## NBC Mission Statement:

Develop, produce, field, and sustain technologically advanced world class nuclear, biological and chemical defense systems for the Joint Services in partnership with the warfighter and industry.



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# PROJECT MANAGER NBC DEFENSE SYSTEMS

<http://www.sbccom.apgea.army.mil/RDA/pmnbc>

Product  
Director  
Detection  
Systems

Product  
Director  
Respiratory  
Protection  
Systems

Product  
Manager  
Obscuration  
and  
Decontamination  
Systems

Product  
Manager NBC  
Reconnaissance  
Systems



## Product Director Detection Systems

### **AUTOMATIC CHEMICAL AGENT DETECTOR ALARM (ACADA):**

The ACADA is an "off-the-shelf" system capable of simultaneously detecting and identifying blister and nerve agents. The system is far more sensitive than the M8A1 Alarm it replaces with a much higher interference rejection capability.

### **IMPROVED CHEMICAL AGENT MONITOR (ICAM):**

The Improved Chemical Agent Monitor is a post-attack monitoring device for detecting nerve and blister agents. The ICAM improves reliability over the basic CAM by 300% and provides "fix forward" modular repair for a total cost avoidance of \$135M over the life of the system.

### **JOINT SERVICE LIGHTWEIGHT STANDOFF CHEMICAL AGENT DETECTOR (JSLSCAD):**

The Joint Service Lightweight Standoff Chemical Agent Detector is the next generation state-of-the-art nerve and blister agent standoff detector. JSLSCAD detects on-the-move, with 360° coverage from a variety of tactical and reconnaissance platforms.

### **JOINT CHEMICAL AGENT DETECTOR (JCAD):**

The Joint Chemical Agent Detector is a combined portable monitoring and small point chemical agent detector for aircraft, shipboard, and individual warfighter applications. This hand-held, pocket-sized detector replaces the M8A1 Alarm, the M22 ACADA, and the CAM/ICAM.

### **MULTIPURPOSE INTEGRATED CHEMICAL AGENT ALARM (MICAD):**

The Multipurpose Integrated Chemical Agent Alarm digitally automates warning and reporting from fielded detectors/sensors and automatically formats and transmits alarms and reports throughout the battlespace. The MICAD's flexible design allows horizontal integration into combat systems using existing displays and computers wherever they exist and provides stand-alone capability where required.

### **JOINT WARNING AND REPORTING NETWORK (JWARN):**

The Joint Warning and Reporting Network System provides the Joint Services hardware and software linking NBC sensors to communications and provides NBC warning, reporting, and battlefield management.

## Product Manager Obscuration and Decontamination Systems

### **M157A2 "LYNX" SMOKE GENERATOR SET & M1059 SMOKE GENERATOR CARRIER:**

The M157A2 Smoke Generator Set and M1059/M1059A3 Smoke Generator Carrier produce large area visual smoke screens on the move. The M157A2 Smoke Generators, operating on standard Army fuels, to produce large, white clouds of fog oil vapor which defeat visual-range observation and tracking methods, including lasers. The M157A2 can be mounted on a M1037/M1097 HMMWV with the M284A1 Mounting Kit, or on the M1059/M1059A3 SGC (variants of the M113A2/M113A3 Armored Personnel Carrier).

### **M56 "COYOTE" MOTORIZED SMOKE OBSCURANT SYSTEM:**

The M56 Coyote is a motorized system mounted on an M1113 Expanded Capacity High Mobility Multipurpose Wheeled Vehicle (HMMWV). The turbo-charged 190hp engine provides excellent mobility. The smoke generating system provides 90 minutes of visual and 30 minutes of infrared obscuration without resupply. The visual and infrared screens can deny enemy reconnaissance, surveillance, and target acquisition (RISTA); divides information of troop strength, position, and movement; and deny visual and infrared weapons systems kills on our combat units. A pre-planned Materiel Change to add a 30 minute millimeter wave obscuring capability will defeat enemy radar RISTA devices and weapons systems. A crew of two operate the M56 Coyote.

### **RAPID OBSCURATION SYSTEMS (ROS):**

Rapid obscuration also provides both visual and infrared obscuration capability to our forces, to include both light and heavy maneuver units, but is primarily for self-protection of individual maneuver vehicles.

### **MODULAR DECONTAMINATION SYSTEM (MDS):**

The Modular Decontamination System is to fulfill the decontamination needs of the primary wash, decontaminant application, and rinse steps of deliberate equipment decontamination (DED).

### **SORBENT DECONTAMINATION SYSTEM (SDS):**

The Sorbent Decontamination System replaces the M11/M13 DAP and associated DS2 used in Operators Spraydown (Immediate Decon). SDS provides greater decontamination area coverage than the M11. SDS fits the M11 envelope and is 1/3 the weight. The larger packet contains the sorbent; the small packet contains a mitt applicator.

### **JOINT SERVICE SENSITIVE EQUIPMENT DECON (JSSED):**

The Joint Service Sensitive Equipment Decon provides the ability to decontaminate chemical and biological agents from sensitive equipment (avionics, electronics, environmental control systems, and life support systems), aircraft/vehicle interiors (during flight, ground, and shipboard operations), and associated cargo.

### **M58 WOLF:**

The M58 Wolf is an armored mechanized vehicle system consisting of a multispectral smoke generator, AN/VAS-5 Driver's Vision Enhancer, M8A3 NBC contamination filter unit with ventilated facepieces, M2 .50cal machine gun, M259 smoke grenade launchers, and SINCGARS radios. Without resupply, the Wolf can continuously produce 90 minutes of visual and 30 minutes of infrared screening smoke. A materiel change will add a 30-minute millimeter wave screening capability. The M58, operated by a three-man crew, will counter threats arising from the wide proliferation of advanced thermal sights, thermal weapons, laser range finders, laser-guided weapons, and in the future, radar and millimeter wave guided systems.

### **LIGHT VEHICLE OBSCURATION SMOKE SYSTEM (LVOSS):**

The LVOSS is a self-defense smoke/obscurant device externally mounted on light vehicles including the HMMWV. To counter threats in the visual and near infrared portion of the electro-magnetic spectrum the LVOSS uses nonfragmenting smoke grenades that are low in toxicity and minimize safety hazards to personnel and to the environment.

